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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,109	01/24/2005	Yasuji Taketsuna	122487	9497
25944	7590 07/10/2006		EXAMINER	
OLIFF & BERRIDGE, PLC			PRESTON, ERIK D	
P.O. BOX 19 ALEXANDE	9928 RIA, VA 22320		ART UNIT	PAPER NUMBER
	,		2834	
			DATE MAILED: 07/10/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

A	D
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	Application No.	Applicant(s)				
	10/522,109	TAKETSUNA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Erik D. Preston	2834				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (D) (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 22 M	av 2006.					
	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	,					
Disposition of Claims						
4) Claim(s) 1,3-8 and 11-14 is/are pending in the	4)⊠ Claim(s) <u>1,3-8 and 11-14</u> is/are pending in the application.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1,3-8 and 11-14</u> is/are rejected.	· · · · · · · · · · · · · · · · · · ·					
7) Claim(s) is/are objected to.	·					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on 24 January 2005 is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
•	- 1-7) (I) = - (0				
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
,	a) All b) Some * c) None of:					
<u> </u>	1. Certified copies of the priority documents have been received.					
<u> </u>	2. Certified copies of the priority documents have been received in Application No.					
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)				

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/22/2006 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,3 & 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Seidner (US 1448700).

With respect to claim 1, Seidner teaches an electric machine comprising: A rotor (Fig. 1, #26) rotating around a horizontal rotation shaft (Fig. 1, #5 & 6); a stator core (Fig. 1, #13) having a plurality of slots (in which the coils are wound, as seen in Fig. 8) in a direction of said rotation shaft in a manner facing a peripheral surface of the rotor; a stator coil (Fig. 1, #18) wound inside said slots; a cooling passage (as seen in Fig. 1) formed such that said stator coil comes into contact with a cooling liquid (Page 2, Lines 33-46), said cooling passage includes a passage implemented by covering an opening

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of said slot (as seen in Fig. 8) with a sealing member (Fig. 1, #3; Figs. 3-7); a feeding means (which inherently exists) for feeding the cooling liquid through said cooling passage; and a discharge portion (Fig. 1, #32) of said cooling liquid provided in an uppermost portion of said cooling passage; and a supply portion (Fig. 1, #49) of said cooling liquid provided on a side lower than the discharge portion of the cooling passage.

With respect to claim 3, Seidner teaches the apparatus of claim 1, wherein the supply portion is provided in a lowermost portion of said cooling passage (as seen in Fig. 1).

With respect to claim 4, Seidner teaches the apparatus of claim 1, wherein the feeding means includes pipes (as seen in Fig. 1) connected to said discharge portion and said supply portion respectively, and supply means for supplying said cooling liquid discharged from said discharge portion to said supply portion, and said apparatus further comprises prevention means (the solid walls of the pipe (which inherently exist in the pipes as taught by Seidner since it is not disclosed that they leak)) for preventing leakage of said cooling liquid, provided in said pipe.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seidner (US 1448700) in view of Hayashi (US 5770899 previously cited).

With respect to claim 5, Seidner teaches the apparatus of claim 4, wherein said prevention means is provided at some portion of the pipe from a protruded outlet of said pump to an inlet of said storage means, but it does not explicitly teach that said supply means is implemented by a pump circulating said cooling liquid, or that said pipe is provided with storage means for storing said cooling liquid in such a manner that said cooling liquid is in contact with air. However, Hayashi teaches an electrical machine with a cooling supply means that comprises a pump (Fig. 3, #22) circulating cooling liquid, and a pipe (Fig. 3, #25) provided with storage means (Fig. 3, #20) for storing said cooling liquid in such a manner that said cooling liquid is in contact with air. It would have been obvious to one of ordinary skill in the art at the time of the invention use the cooling liquid supply means of Hayashi to provide the cooling liquid to the machine of Seidner because it provides a well known means for supplying a cooling liquid to an electric machine (Hayashi, Abstract).

With respect to claims 6 & 7, Seidner in view of Hayashi teaches the motor of claim 5, wherein said prevention means is provided in both the discharge and supply portions.

Claims 8 & 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seidner (US 1448700) in view of Kimura et al. (US 2002/0145353 previously cited). Seidner teaches the motor of claims 1 & 4, but it does not teach that the motor is implemented as a distributed winding motor. However, Kimura teaches a motor that

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has distributed windings (Paragraph 4). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the motor of Seidner in view of the windings as taught by Kimura because they make it possible to bring the induced voltage waveform closer to a sinusoidal waveform by improving the stator wiring layout and reduce distortion rate (Kimura, Paragraph 4).

Claims 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seidner (US 1448700) in view of Hayashi (US 5770899 previously cited) further in view of Kimura et al. (US 2002/0145353 previously cited). Seidner in view of Hayashi teaches the motor of claims 5-7, but it does not teach that the motor is implemented as a distributed winding motor. However, Kimura teaches a motor that has distributed windings (Paragraph 4). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the motor of Seidner in view of the windings as taught by Kimura because, as was stated above, they make it possible to bring the induced voltage waveform closer to a sinusoidal waveform by improving the stator wiring layout and reduce distortion rate (Kimura, Paragraph 4).

Response to Arguments

Applicant's arguments with respect to claims 1,3-8 & 11-14 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erik D. Preston whose telephone number is (571)272-8393. The examiner can normally be reached on Monday through Friday 8-5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571)272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

06/07/2006

DARREN SCHUBERG SUPERVISORY PATENT EXAMINATE TECHNOLOGY CYMTET 2800